

Comparisons of Job Characteristics

Focus Occupation: [Medical Scientists, Except Epidemiologists \(19-1042\)](#)

Associated Occupation: [Health Specialties Teachers, Postsecondary \(25-1071\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042)
Associated Occupation: Health Specialties Teachers, Postsecondary (25-1071)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Education and Training	9.2	23.3	13.7	<<	Extensive education and/or training may be required
English Language	11.2	18.2	17.4	0	Current knowledge level may be sufficient
Medicine and Dentistry	3.7	17.6	15.6	<	Expanded education and/or training may be required
Biology	3.7	16.3	19.8	>>	Current knowledge level is likely more than sufficient
Psychology	6.4	13.5	8.6	<<	Extensive education and/or training may be required
Therapy and Counseling	3.8	11.7	5.2	<<	Extensive education and/or training may be required
Sociology and Anthropology	4.1	11.1	7.8	<<	Extensive education and/or training may be required
Communications and Media	5.3	9.4	14.3	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042)
Associated Occupation: Health Specialties Teachers, Postsecondary (25-1071)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	18.3	17.2	0	Current skill level may be sufficient
Speaking	10.8	17.0	13.8	<	A higher skill level may be required
Instructing	7.8	16.5	11.1	<<	Extensive development of skills in this area may be required

Writing	9.2	14.9	13.9	0	Current skill level may be sufficient
Critical Thinking	10.8	14.8	16.2	0	Current skill level may be sufficient
Active Listening	11.0	14.6	13.0	<	A higher skill level may be required
Learning Strategies	7.2	14.1	9.4	<<	Extensive development of skills in this area may be required
Active Learning	8.7	13.6	13.4	0	Current skill level may be sufficient
Complex Problem Solving	9.1	13.5	14.6	0	Current skill level may be sufficient
Monitoring	9.9	13.3	12.8	0	Current skill level may be sufficient
Judgment and Decision Making	9.4	13.0	12.8	0	Current skill level may be sufficient
Time Management	8.9	12.0	11.0	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 93			
Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042) Associated Occupation: Health Specialties Teachers, Postsecondary (25-1071)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	19.6	17.5	<	Some improvement in abilities may be required
Written Comprehension	11.0	17.9	18.3	0	Current ability level may be sufficient
Oral Comprehension	12.5	17.6	18.8	0	Current ability level may be sufficient
Written Expression	9.8	16.6	14.9	<	Some improvement in abilities may be required
Speech Clarity	10.2	15.7	14.1	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	13.3	16.0	>	Current ability level is likely sufficient
Inductive Reasoning	10.2	13.2	18.6	>>	Current ability level is likely more than sufficient
Originality	7.6	10.2	10.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 93
Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042) Associated Occupation: Health Specialties Teachers, Postsecondary (25-1071)		
Work Activities	Exclusivity of Activity	
Advise governmental or industrial personnel	28	
Analyze medical data	57	
Communicate technical information	4	
Convert information into instructional program	38	

Direct and coordinate scientific research or investigative studies	27
Make presentations on health or medical issues	50
Present research papers or dissertations on health science issues	95
Research health improvement issues	89
Research human or animal disease	77
Teach health personnel	92
Teach principles of medicine or laboratory procedures	95
Understand pharmaceutical formulas	89
Use health or sanitation standards	62
Use knowledge of medical terminology	40
Use library or online Internet research techniques	21
Use medical diagnostic techniques	71
Use oral or written communication techniques	1
Use research methodology procedures in health care	63
Use sanitation practices in health care settings	48
Write research or project grant proposals	33
Write technical health or medical documents	73

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042)
Associated Occupation: Health Specialties Teachers, Postsecondary (25-1071)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.